CONTENTS

S. P. Azen (*see R. Bellman*)

L. C. Barrett and Gerald E. Bendixen: Separation and interlacing theorems . . . 69

R. Bellman, S. P. Azen and J. M. Richardson: On new and direct computational approaches to some mathematical models of turbulence 55

G. E. Bendixen: (*see L. C. Barrett*)

M. M. Carroll and R. S. Rivlin: Transverse electric and magnetic effects 365

C.-W. Chu: A. class of reducible systems of quasi-linear partial differential equations 275

H. Cohen (*see C. N. DeSilva*)

C. N. DeSilva and H. Cohen: Stress distribution around a hole in an ellipsoidal shell 109

R. C. DiPrima and R. Sani: The convergence of the Galerkin method for the Taylor-Dean stability problem 183

L. B. Felsen: Transient solutions for a class of diffraction problems 151

G. N. C. Fisher and M. E. Gurtin: Wave propagation in the linear theory of viscoelasticity 257

M. E. Gurtin and I. Herrera: On dissipation inequalities and linear viscoelasticity 235

M. E. Gurtin and R. A. Toupin: A uniqueness theorem for the displacement boundary-value problem of linear elastodynamics 79

M. E. Gurtin (*see G. M. C. Fisher*)

K. S. Havner: On the formulation and iterative solution of small strain plasticity problems 323

I. Herrera (*see M. E. Gurtin*)

J. Jones, Jr.: On oscillation number of second order linear differential systems. . 181

D. D. Joseph: Bounds on λ for positive solutions of $\Delta\psi + \lambda f(r)\{\psi + G(\psi)\} = 0$ 349

R. E. Kalman: On the Hermite-Fujiwara theorem in stability theory 279

L. M. Keer: Nonaxisymmetric punch and crack problems for initially stressed bodies 97

R. D. Kodis (*see W. Streifer*)

W. E. Langlois: A wedge-flow approach to lubrication theory 39

S. L. Lee (*see T. Mura*)

C. A. Ludeke: The use of the perturbation method for determining the pumping frequencies of parametric amplifiers 1

H. J. Lugt and E. W. Schwiderski: Temperature distributions in rotating flows normal to a flat surface 133

R. C. MacCamy: Low frequency acoustic oscillations 247

G. T. McAllister: Difference methods for a nonlinear elliptic system of partial differential equations 355

B. Mond: A symmetric dual theorem for non-linear programs 265

T. Mura, W. H. Rimawi and S. L. Lee: Extended theorems of limit analysis. . . 171

F. I. Niordson: On the optimal design of a vibration beam 47

V. O'Brien: Viscous MHD flow about a spherical magnetic quadrupole 283

D. D. Penrod: An analogue of the Kolosoff-Muskhelishvili formulae in three dimensions 313

A. C. Pipkin: Shock structure in a viscoelastic fluid 297
P. J. Ponzo and N. Wax: On certain relaxation oscillations: confining regions . . 215
P. C. Rath and R. Vasudevan: The initial vibrations of a spinning shell. 289
W. T. Reid: A matrix equation related to a non-oscillation criterion and Liapunov stability 83
E. Reissner and H. J. Weinitschke: Corrections to the paper "Finite pure bending of circular cylindrical tubes" 368
J. M. Richardson: Application of conservation laws to the asymptotic properties of hypersonic flow 360
J. M. Richardson (*see R. Bellman*)
W. H. Rimawi (*see T. Mura*)
G. Rosen: Formal equivalence of the nonlinear string and one-dimensional fluid flow 286
I. W. Sandberg: Conditions for the causality of nonlinear operators defined on a function space. 87
R. Sani (*see R. C. DiPrima*)
M. Schechter: Buckling of an elastic membrane on a surface of revolution . . . 121
R. D. Schile and R. L. Sierakowski: On the Saint Venant problem for a nonhomogeneous elastic material. 19
E. W. Schwiderski (*see H. J. Lugt*)
B. Sherman: A free boundary problem for the heat equation with heat input at a melting interface. 337
R. L. Sierakowski (*see R. D. Schile*)
W. R. Spillers: On diakoptics: tearing an arbitrary system 188
C. R. Steele: On the asymptotic solution of nonhomogeneous ordinary differential equations with a large parameter 193
W. Streifer and R. D. Kodis: On the solution of a transcendental equation in scattering theory—Part II 27
R. A. Toupin (*see M. E. Gurtin*)
R. Vasudevan (*see P. C. Rath*)
M. Wachman: Series representation of continuous functions. 203
C.-C. Wang: On the radial oscillations of a spherical thin shell in the finite elasticity theory 270
C.-Y. Wang: The resistance on a circular cylinder in an oscillating stream. . . . 305
N. Wax (*see P. J. Ponzo*)
H. J. Weinitschke (*see E. Reissner*)
I. M. Winer: Solution to a class of complete heat flow equations. 82
BOOK REVIEWS 18, 26, 54, 68, 92, 120, 170, 180, 191, 202, 246, 256, 264, 288, 304, 336, 348